

# MWP 65-12

Compliance with standards:  
 PN-EN 60896-21:2007  
 PN-EN 60896-22:2007  
 PN-EN 61056-1:2013-05  
 PN-EN 61056-2:2013-05  
 PN-E-83016:1999

MW Power cells of MWP Series are made in VRLA (AGM) technology and designed for use in emergency power systems and various applications requiring cyclic use. Possible use of these batteries include automation systems, UPS, energy source for mobile devices. For 50%

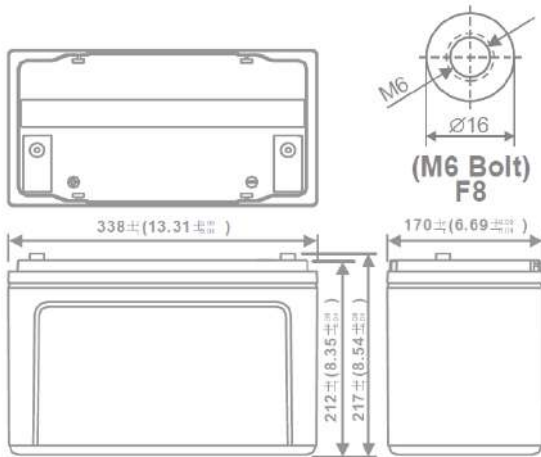
discharges MWP batteries can perform up to 600 charge-discharge cycles.

Designed service life is 12 years at working temperature of 20-25°C

Specification		
Nominal Voltage		12V
Nominal Capacity		65 Ah
Dimensions	Length	350 mm
	Width	167 mm
	Height	179 mm
	Total height	179 mm
Weight		20,9 kg

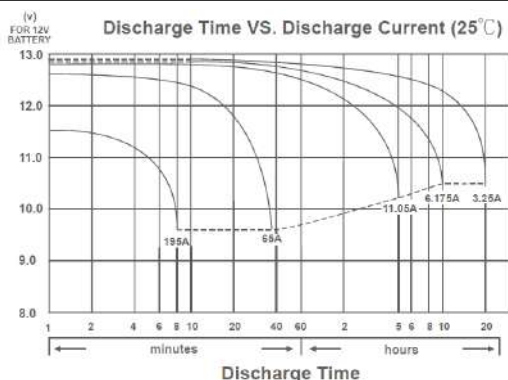


## Dimensions mm (inches)



Recommended/max allowable torque value M6: 7Nm/9Nm

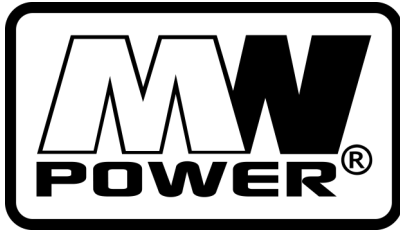
## Discharge characteristics



Characteristics		
Capacity for 25°C and cut-off voltage 10,2V	20h	68,0 Ah
	10h	65,0 Ah
	5h	57,5 Ah
Internal resistance	Fully charged battery	7 mΩ
Capacity	20°C	100%
	0°C	85%
	-15°C	65%
Self-discharge	3 months	90%
	6 months	80%
	12 months	65%
Terminal / Case Material	M6/ ABS UL94 HB	
Charging	Standby use:	13,5-13,8 V
	Cycle use:	14,4-15,0 V
Max. charge current	19,5 A	
Max discharge current	780A / 5s	
Temperature:	Discharging	-20°C—50°C
	Charging	-20°C—50°C
	Storage	-20°C—50°C



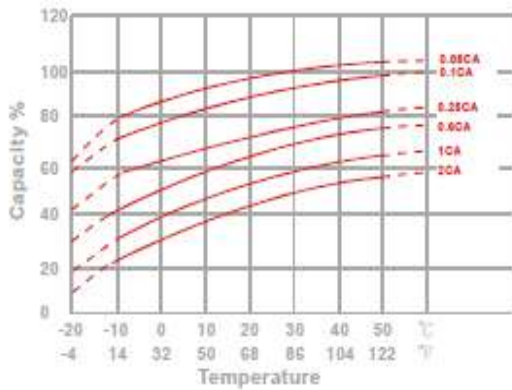
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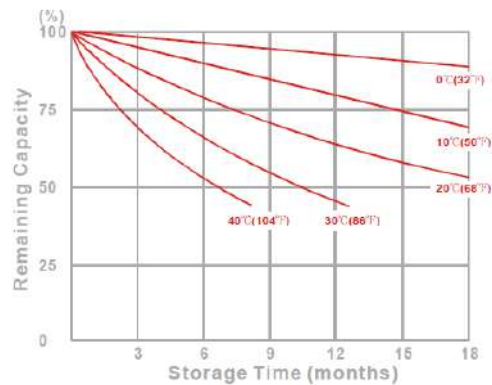
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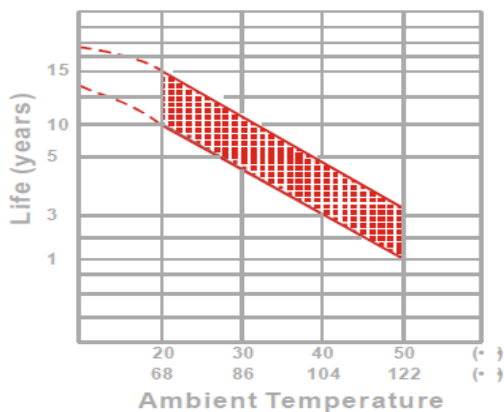
## Temperature effect on capacity



## Capacity Retention Characteristic



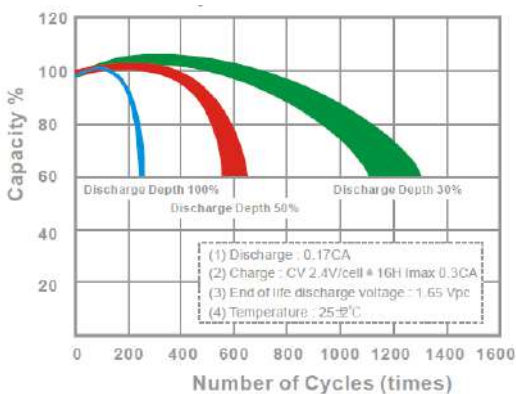
## Service Life



## Constant power discharge (Watt, 25°C)

Voltage	11,1 V	10,8 V	10,5 V	10,2 V	9,9 V	9,6V
5 min	1650	1920	2226	2280	2376	2592
10 min	1380	1506	1644	1692	1740	1854
15 min	1140	1242	1290	1308	1344	1386
30 min	744	804	828	846	858	888
60 min	459	493,8	502,2	504	505,8	510
120 min	288	294	297	298,2	298,8	300
180 min	201	204	205,8	207	208,2	210
240 min	163,2	165	166,2	166,8	168	169,2
300 min	135,6	138,6	139,2	139,8	140,4	140,4
600 min	77,4	79,2	79,2	79,8	79,8	79,8
1200 min	40,56	41,16	41,22	41,34	41,46	41,64

## Cycle Service Life



## Constant current discharge (A, 25°C)

Voltage	11,1 V	10,8 V	10,5 V	10,2 V	9,9 V	9,6V
5 min	151,2	177	208,2	213	224,4	244,8
10 min	123	135	148,8	154,2	157,8	169,2
15 min	100,2	109,2	115,8	118,8	121,8	129
30 min	63,6	68,4	71,4	73,2	75	77,4
60 min	38,52	41,52	42,48	43,02	43,62	44,22
120 min	24,3	24,78	24,96	25,32	25,5	25,8
180 min	16,98	17,34	17,46	17,7	17,82	18
240 min	13,56	13,8	13,92	13,98	14,1	14,22
300 min	11,28	11,46	11,58	11,7	11,82	11,88
600 min	6,42	6,54	6,6	6,6	6,6	6,66
1200 min	3,354	3,402	3,408	3,42	3,432	3,444



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